

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-182497
(43)Date of publication of application : 30.06.1992

(51)Int.Cl.

C07K 13/00
A61K 37/02
C12N 1/21
C12N 15/28
C12P 21/02
// (C12N 1/21
C12R 1:19)
(C12P 21/02
C12R 1:19)

(21)Application number : 02-311129

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(22)Date of filing : 16.11.1990

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(54) POLYPEPTIDE

(57)Abstract:

NEW MATERIAL: A polypeptide having a sequence wherein 106th Gly is replaced with another amino acid or is deficient in the amino acid sequence from 1st Ser to 155th Leu shown by the formula.

USE: An antitumor agent.

PREPARATION: For example, a gene encoding an amino acid sequence of human tumor necrosis factor(TNF) is cleft with a restriction enzyme to prepare a DNA fragment encoding an amino acid sequence of 1st Ser to 155th Leu shown by the formula, which is subjected to gene conversion in combination with digestion with a restriction enzyme and connection with T4DNA ligase to give a converted material wherein 106th Gly is replaced with another amino acid or is deficient. The converted material is linked to a manifestation vector, Escherichia coli is transformed with the vector and the converted material is cultured to give a polypeptide of human TNF converted material.

Ser Ser Ser Arg Tyr Pro Ser Asp Lys Pro Val Ala Phe Val Val
10
Ala Asp Pro Glu Ala Glu Gly Glu Lys Glu Tyr Leu Asp Arg Arg
20
Ala Asp Ala Asp Lys Ala Asp Gly Val Ala Lys Asp Asp Asp
30
Leu Val Val Pro Ser Glu Gly Leu Tyr Lys Ile Tyr Ser Glu Val
40
Leu Phe Lys Gly Glu Gly Cys Pro Ser Ser His Val Leu Leu Tyr
50
Ile Glu Ile Ser Arg Ile Phe Val Ser Tyr Glu Tyr Lys Val Asp
60
Leu Leu Ser Ala Ile Lys Ser Pro Cys Glu Arg Glu Tyr Pro Glu
70
Gly Ala Glu Ala Asp Pro Tyr Tyr Glu Pro Ile Tyr Leu Cys Gly
80
Val Phe Glu Lys Gly Lys Gly Asp Arg Leu Ser Phe Lys Lys
90
Arg Pro Asp Tyr Leu Asp Phe Ala Glu Ser Cys Glu Val Tyr Phe
100
Gly Ile Ile Ala Leu
110
120
130
140
150

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the
examiner's decision of rejection or application
converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of
rejection]

[Date of requesting appeal against examiner's decision
of rejection]

[Date of extinction of right]